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UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Mario Bechtold et al

Application Number: 10/591,090

Filing Date: 06/18/2007

Group Art Unit: 2875

Examiner:

Title: REVERSING LINEAR DRIVE COMPRISING MEANS FOR
DETECTING AN ARMATURE POSITION

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

This SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT is being
filed based on newly discovered references.

In accordance with 37 C.F.R. 1.98, there is submitted herewith a completed
“SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANTS”
(Form PTO/SB/08A) with patents and/or publications as delineated therein attached.

SU 792499 discloses a device for converting of rotation into linear motion consists of
a rotational motor (3) and an electromagnetic coupling which comprises a control winding
(10) arranged on a core (8), a pole system and an armature (7) in the form of electro-
conductive band. An object of the Invention is to improve the speed performance and the
control properties of the device and to reduce dimensions thereof. The objects are achieved
by that the device is provided with an additional core (9) and an additional control winding
(11) arranged on the opposite side relative to the plane extending through the axis of the
motor shaft (4) and the longitudinal axis of the guide. Magnetic-conductive segments (12, 13)
facing the pole system are mounted on the upper and lower end sides of both cores (8, 9).
Poles (6) of the pole system are uniformly spaced circumferentially, connected to the motor

shaft (4) and are provided with alternating upper and lower protrusions (14) arranged respectively on the level of the upper and lower magnetic-conductive segments.

SU 1051662 discloses the invention relates to electric machines having a moveable element of linear displacement and can be used in linear drives of machine-tools, industrial robots and other mechanisms where linear displacement with precise positioning is required. The linear electric motor comprises an inductor (1) with a three-phase winding (Φ_1 , Φ_2 , Φ_3) and a ferromagnetic armature (2) having short-circuited conductive elements (4) arranged in teeth-separating grooves. An object of the invention is to increase functional capability of the device by providing precise positioning of the movable element. For that electric magnets with ferromagnetic poles (6) facing the armature (2) are mounted on both end sides of the Inductor, wherein the distance between pole axes is equal or divisible to the tooth pitch of the armature and the distance between electric magnets is equal or divisible to the pole pitch of the armature.

RU2025035 discloses that the invention refers to line synchronous electric motor drives. Drive includes line synchronous electric motor having immobile part manufactured in the form of magnetic circuit with permanent magnets with alternating polarity attached to it, mobile with two armatures, each having main three-phase winding and supplementary three-phase winding containing smaller number of turns as compared with main one and laid in each armature in parallel to main winding, two digital-to-analog converters, two power amplifiers, two adders, numerical program control device, proportional-integral regulator, voltage limiter, inertial link, current-limiting unit, functional converter, two current regulators, two current pickups, position transducer, phase-to-code converter, rectifier, former of movement pulse signals. Coarse control is realized with the aid of winding having bigger number of turns of main armature and accurate control is performed by means of winding with smaller number of turns of supplementary armature of line motor.

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicants.

As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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CERTIFICATE OF MAILING UNDER 37 CFR 1.8

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I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

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Date of Deposit

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Name of Person Signing

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